DECLARATION

I hereby declare that

1) The thesis embodies the results of original researches carried out by me under the supervision of Prof. U. Aswathanarayana, when I was JRF in the CSIR Project (The work was continued in the Analytical Chemistry Division of the Bhabha Atomic Research Centre, Bombay, under the general supervision of Dr M. Sankar Das, Head, Analytical Chemistry Division).

2) Concepts and data drawn from published and other sources have been suitably acknowledged.

3) Some of the techniques made use of in the present work had to be specially developed/oriented for the present purpose. A list of my publications and the reprints pertaining to this aspect as well as other reprints are submitted as an appendix to the thesis.

4) The thesis in its present form has not been published or submitted for the award of any other diploma, degree or prize of any other University.

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